A metering device that includes a housing—(1) defining a cylindrical chamber—(2) containing a reciprocating shuttle—(3). The two opposed end parts of the chamber are interconnected by fluid flow ducts (11, 12) to a cylindrical valve bore—(13). Contained with the valve—(4) is a rotary valve rod—(17) driven rotationally by a stepping motor—(M). The valve rod—(17) has part cut away to form channels or recesses—(18,19,20,21,22). In one rotational position of the valve rod—(17) a flow path is established from an inlet—(16) to one end of the chamber—(2) and a separate flow path is established from the other end of the chamber to an outlet—(14). In an alternate orientation of the valve rod—(17) a flow path is formed from the inlet—(16) to the other end of the chamber—(2) and the first end of the chamber is connected to an outlet—(15).